

Please replace the paragraph beginning at page 18, line 9, with the following

rewritten paragraph:

A2 The rest of the arrangement is similar to that of the first embodiment.

IN THE CLAIMS

Please substitute the following amended claim(s) for corresponding claim(s) previously presented. A copy of the amended claim(s) showing current revisions is attached.

*end
B,
P24
One*

1. (Amended) A gas sensor comprising a cylindrical insulator having an element insertion hole extending from a proximal end to a distal end thereof, a gas sensing element airtightly fixed in said element insertion hole of the insulator, and a cylindrical housing having an inside space for placing said insulator, with an air side cover attached to a proximal end of said housing so as to confine an aerial atmosphere therein and a measured gas side cover attached to a distal end of said housing so as to confine a measured gas atmosphere therein, wherein
a sealing material is provided at one side of said element insertion hole for sealing a clearance between an inner surface of said element insertion hole and an outer surface of said gas sensing element, and
a cushion filler is provided at the other side of said element insertion hole for sealing a clearance between an inner surface of said element insertion hole and the outer surface of said gas sensing element.

2. (Amended) The gas sensor in accordance with claim 1, wherein a filling percentage of said cushion filler provided between said inner surface of said element insertion hole and the outer surface of said gas sensing element is in the range from 10% to 80%.

6. (Amended) A gas sensor comprising a cylindrical insulator having an element insertion hole extending from a proximal end to a distal end thereof, a gas sensing element airtightly fixed in said element insertion hole of the insulator, and a cylindrical housing having an inside space for placing said insulator, with an air side cover attached to a proximal end of said housing so as to confine an aerial atmosphere therein and a measured gas side cover attached to a distal end of said housing so as to confine a measured gas atmosphere therein, wherein

a sealing material is provided at one side of said element insertion hole for sealing a clearance between an inner surface of said element insertion hole and an outer surface of said gas sensing element,

a cushion filler is provided at the other side of said element insertion hole for sealing a clearance between an inner surface of said element insertion hole and the outer surface of said gas sensing element,

said insulator constitutes a main body and a separate body attached via a spacer to a distal end of said main body, so that said element insertion hole extends across both of said main body and said separate body, and

said cushion filler is provided only in the element insertion hole of said separate body.

Please add the following new claims.

--7. (New) A gas sensor as claimed in claim 1, said cushion filler being capable of withstanding a loading force from 5N to 1,000N.

and
B) 8. (New) A gas sensor as claimed in claim 6, said cushion filler being capable of withstanding a loading force from 5N to 1,000N.--